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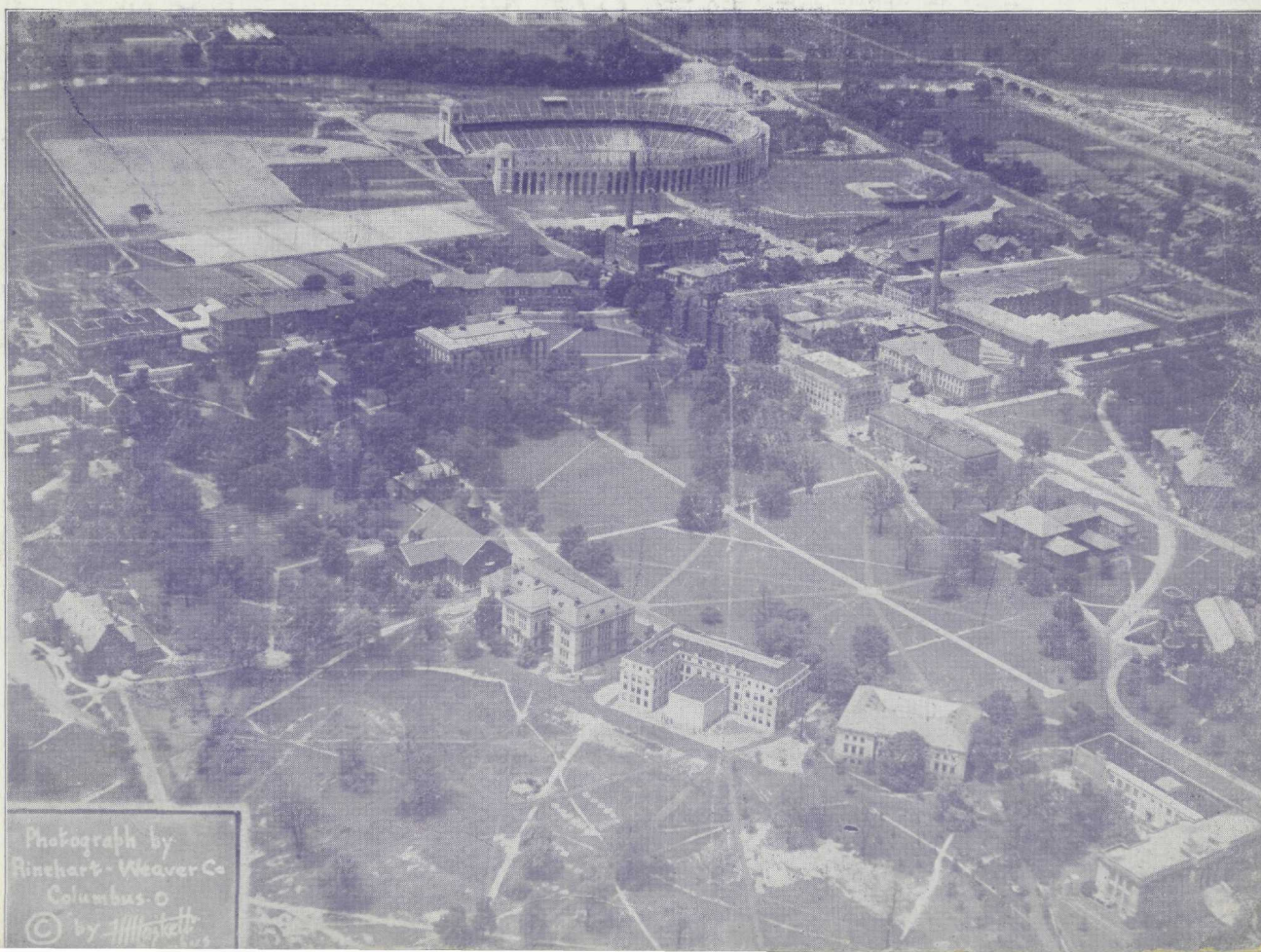
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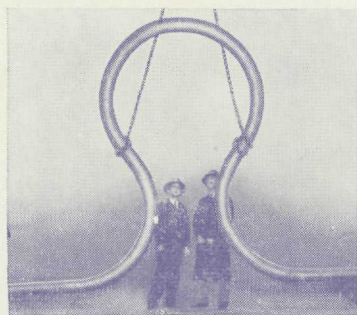
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Streamlined Piping

Oxy-acetylene welding and cutting add a new note of grace and efficiency in modern piping systems.

By G. O. CARTER*

NOWADAYS everything is being "streamlined"—airplanes, automobiles, trains, ships, approach their greatest degree of grace and efficiency through this design principle. Usually their streamlining is all on the outside. Piping joined by welding is streamlined both inside and outside.

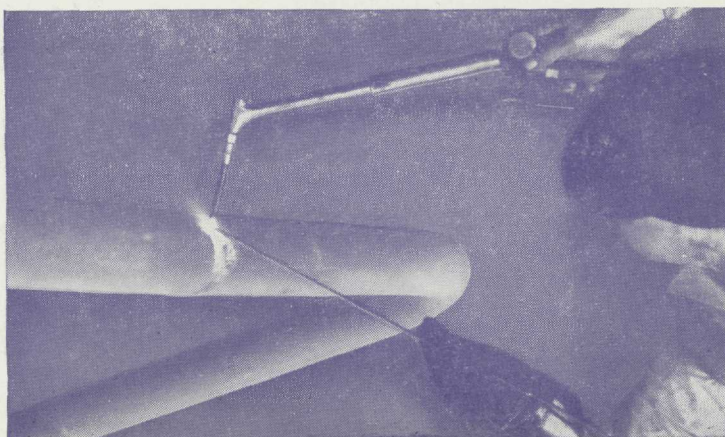


WELDED ASSEMBLIES such as this loop in a steam line are easily made.

100,000 Miles Installed

Welded joints were first used for river crossings in oil pipe lines. They proved strong and sturdy enough to withstand the shocks of this difficult service. Soon welding came into general use for every joint in the line. Today over 100,000 miles of welded pipe carry oil, gas and gasoline over the country.

The economies which welding brought to the construction and maintenance of pipe lines led to its adoption for power plant and industrial piping. Now it is the first choice of many engineers for all kinds of piping.



"JOINTLESS"—With a safe, simple and portable oxy-acetylene welding and cutting outfit and suitable welding rods, pipe of any size, any commercial metal, is assembled rapidly into sound jointless piping systems.

Prevents Leakage Loss

Streamlined welded piping has many attractive features besides its smooth lines. Welding is sound, safe, and in the final analysis, the most economical way of putting pipe together.

Welding makes a "jointless" job—insures the owner from future maintenance. Permanence is so positive that in the Cathedral of St. John the Divine in New York, welded piping has been installed in masonry walls fourteen feet thick. In other instances coils of welded piping have been set directly in plaster in the ceilings and walls of beautiful residences. Modern skyscrapers enclose mile upon mile of welded piping. In one building group in the East there are over 85 miles of welded steam piping alone.

Avoids Friction

Pipe joined by welding is smooth inside and outside—truly streamlined. The smooth outside makes insulation less costly and easier to apply. The smooth inside makes friction negligible and reduces power losses. Welded piping is now used for gases and liquids of all sorts and for many solids—requiring pipe of every size and of almost every metal.

Permanent but Flexible

To be a sound investment today, buildings must remain relatively free from maintenance. Piping



SINUOUS CURVES of welded pipe sweep from floor to floor carrying steam, water, gases and liquids.

must be permanent, strong, leak-proof and reasonable in cost.

Welded piping is permanent. But alterations can be made easily when desired. The oxy-acetylene cutting blowpipe gives the ready means of making an opening. The addition is then tied-in simply by means of welding. This is especially important in the modernization of old buildings.

Installation Facilities Everywhere

The Linde Air Products Company, a Unit of Union Carbide and Carbon Corporation, has pioneered many applications of the oxy-acetylene process in pipe welding. Without cost or obligation to you, it will gladly furnish complete data on welded piping methods. It will make available also such further technical assistance your engineers or construction men may require. Linde Sales Offices are located at Atlanta, Baltimore, Birmingham, Boston, Buffalo, Butte, Chicago, Cleveland, Dallas, Denver, Detroit, El Paso, Houston, Indianapolis, Kansas City, Los Angeles, Memphis, Milwaukee, Minneapolis, New Orleans, New York, Philadelphia, Phoenix, Pittsburgh, Portland, Ore., St. Louis, Salt Lake City, San Francisco, Seattle, Spokane, and Tulsa.

Everything for oxy-acetylene welding and cutting—including Linde Oxygen, Prest-O-Lite Acetylene, Union Carbide and Oxweld Apparatus and Supplies—is available from Linde through producing plants and warehouse stocks, everywhere.

*Consulting Engineer, The Linde Air Products Company, Unit of Union Carbide and Carbon Corporation.

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copy 3

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Contents

Published in the months of
October, November, January,
February, March, April,
and May by the students in
the College of Engineering
The Ohio State
University, Columbus, Ohio

Cover Cut—The Campus from the Air	
Frontispiece—The Armory.....	2
Message from Dean Hitchcock.....	3
The Engineers' Bookshelf—by Wilson Dumble.....	4
Departmental Notes.....	6
Theta Tau.....	7
Triangle.....	7
Texnikoi.....	8
The Library.....	9
Robinson Laboratory.....	9
Editorials.....	11

Campus Cuts—Courtesy the Alumni.

Fraternity Cuts—Courtesy the Makio.

HOWARD CRUSEY, Editor
RICHARD FIGLEY, Bus. Mgr.

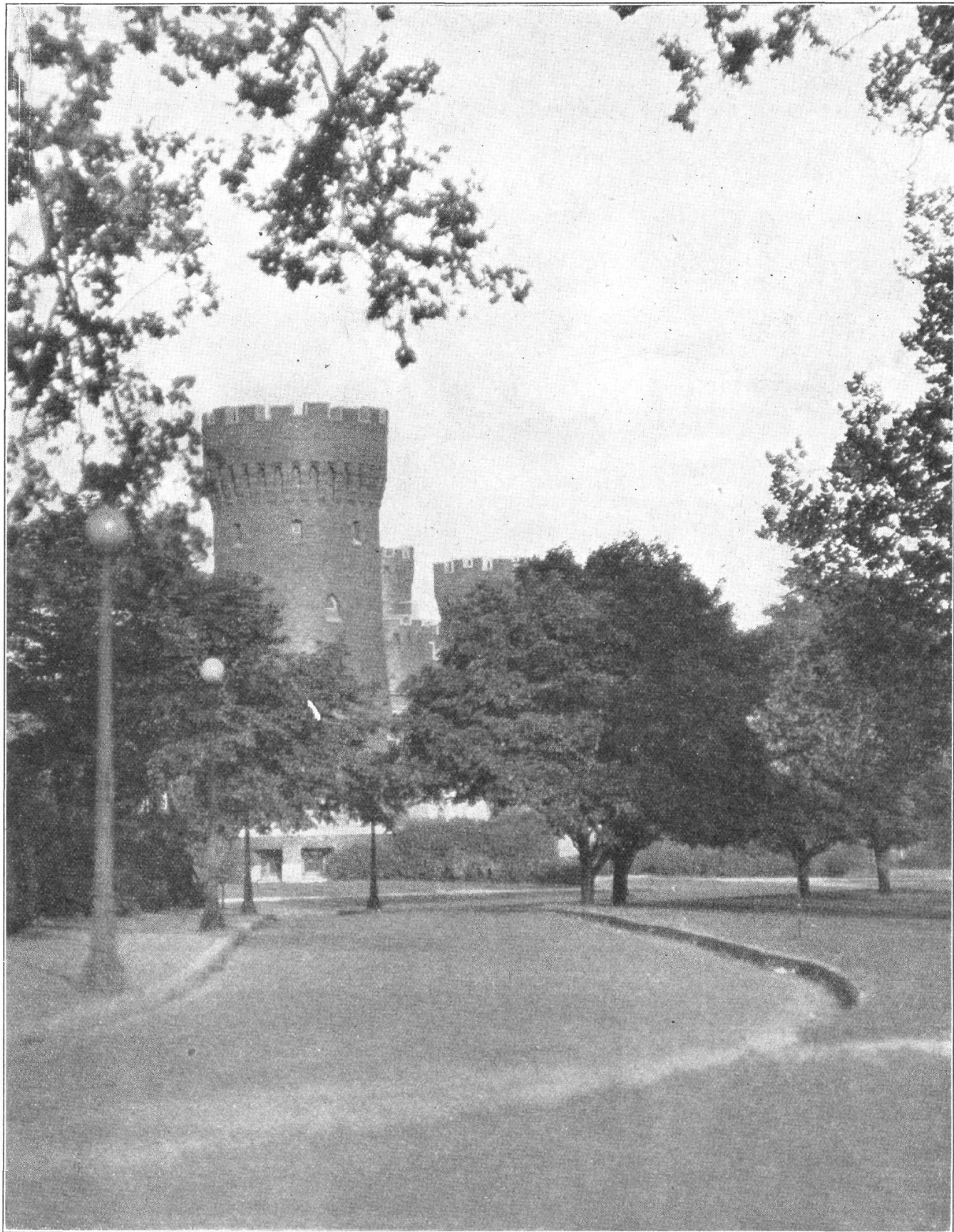
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—The Armory